

1900M Frequency Stability

Measurement Results

Measurement Results vs. Variation of Temperature

- **GPRS Mode, 3.3V DC Channel No.661(1880.0MHz)**

Table 1 Measurement Results vs. Variation of Temperature—GPRS Mode

Temperature	Power (dBm)	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 ℃	30	1880.0	-32	Pass
-20 ℃	30	1880.0	-22	Pass
-10 ℃	30	1880.0	-5	Pass
0 ℃	30	1880.0	7	Pass
+10 ℃	30	1880.0	9	Pass
+20 ℃	30	1880.0	-30	Pass
+30 ℃	30	1880.0	8	Pass
+40 ℃	30	1880.0	6	Pass
+50 ℃	30	1880.0	-38	Pass

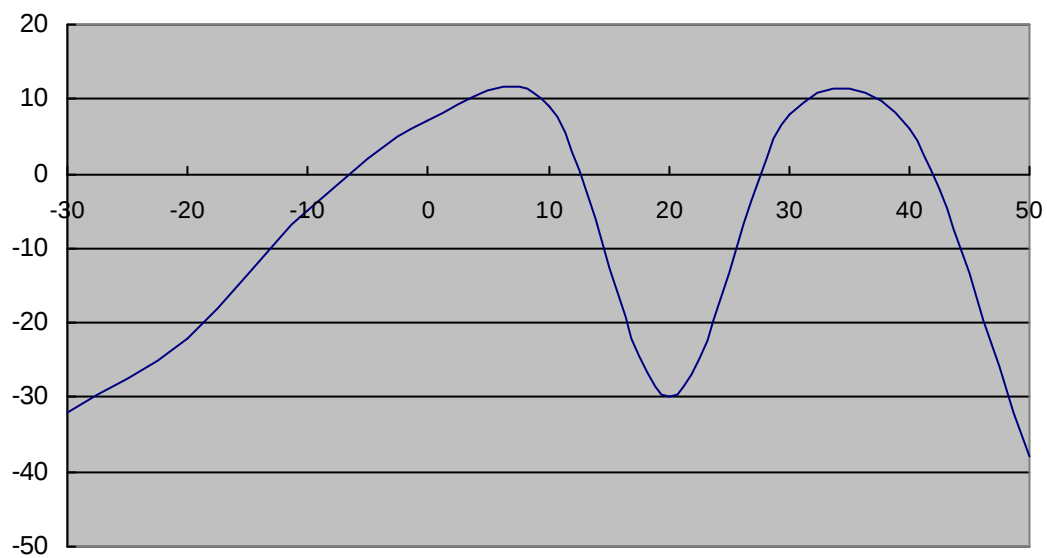


Figure 1.GPRS Mode Test Graph

- **EDGE Mode, 3.3V DC Channel No.661(1880.0MHz)**

Table 2 Measurement Results vs. Variation of Temperature—EDGE Mode

Temperature	Power (dBm)	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 ℃	26	1880.0	-10	Pass
-20 ℃	26	1880.0	10	Pass
-10 ℃	26	1880.0	6	Pass
0 ℃	26	1880.0	10	Pass
+10 ℃	26	1880.0	9	Pass
+20 ℃	26	1880.0	-36	Pass
+30 ℃	26	1880.0	-16	Pass
+40 ℃	26	1880.0	-26	Pass
+50 ℃	26	1880.0	-8	Pass

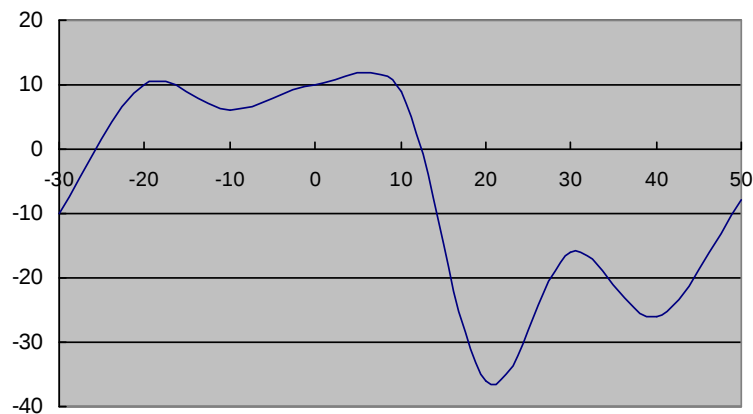


Figure 2. EDGE Mode Test Graph

- **UMTS Mode, 3.3V DC Channel No.9400(1880.0MHz)**

Table 3 Measurement Results vs. Variation of Temperature—UMTS Mode

Temperature	Power (dBm)	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 ℃	24	1880.0	5	Pass
-20 ℃	24	1880.0	4	Pass
-10 ℃	24	1880.0	0	Pass

0 °C	24	1880.0	-7	Pass
+10 °C	24	1880.0	9	Pass
+20 °C	24	1880.0	-1	Pass
+30 °C	24	1880.0	-4	Pass
+40 °C	24	1880.0	-2	Pass
+50 °C	24	1880.0	-1	Pass

